

## PATENT

For: ☒ U.S. Application or

For ☐ U.S. Patent

For: ☐ PCT Application

By: Multiple Inventors

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

Alireza Ryan Heidari

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USA

Fenghua Liu

Address	Nationality
7675 Palmilla Drive, San Diego CA 92122	#6210

Canada

hereby sells, assigns and transfers to  
ASSIGNEE:

Nokia Mobile Phones Limited

Keilalahdentie 4

(type or print name of ASSIGNEE)

Address

02150 Espoo, Finland

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- ☒ the entire right, title and interest  
☐ an undivided \_\_\_\_\_ percent ( \_\_\_\_\_ %) interest  
for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

- ☒ and in all foreign countries, including all rights to claim priority  
in and to any and all improvements which are disclosed in the invention entitled:

Vector Quantization in CELP Speech Coder

(check and complete (a), (b), (c), (d), (e), (f), or (g))

and which is found in

- (a) ☐ U.S. patent application executed on even date herewith  
(b) ☐ U.S. patent application executed on \_\_\_\_\_  
(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention  
☐ Express mail label no.: \_\_\_\_\_  
Mailed: \_\_\_\_\_  
☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) ☒ U.S. application no. 09 / 032,205 filed on 2/27/98  
(e) ☐ International application no. PCT / \_\_\_\_\_ / \_\_\_\_\_  
filed on \_\_\_\_\_  
(f) ☐ U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(check (g), if foreign application(s) is also being assigned)

- (g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this 5/18/98  
Date of signing

**WARNING:** The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Alireza Ryan Heidari  
(type name of Inventor)

Fenghua Liu

Alireza Ryan Heidari  
Signature of INVENTOR

☒ Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

## NOTARIZATION OR LEGALIZATION ACCOMPANYING ASSIGNMENT

NOTE: Executing this page is not required for assignment, and is only prima facie evidence of execution. 35 USC 261.

Details of Country United States  
and place of signing of assignment San Diego  
California

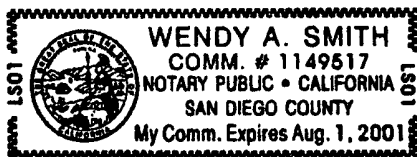
Before me this 18<sup>th</sup> day of May, 1998, personally appeared the above named individual(s), to me known to be the person(s) who ☐ is ☒ are described in, and who executed the foregoing assignment instrument and acknowledged to me that

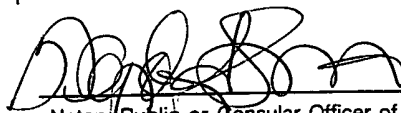
☐ he☐ his☐ she

executed the same of

☐ her☒ they☒ their

own free will for the purpose therein expressed.



  
Notary Public or Consular Officer of the  
United States of America